

**Quality Assurance Surveillance Plan
STREAMS II
Task Order 4, Cadmus EP-C-11-039**

TITLE: Storm Water LID BMP Model Validation Study

TOM: Michael Tryby

Task	Activities	Deliverables	Performance Requirement	Contractor Incentive (CI)	✓ or X
Task 1: Develop QAPP	Develop QAPP outlining the approaches to be implemented ensuring a high standard of quality in secondary data, data analysis, and written deliverables.	Draft QAPP Revised QAPP	Management and Communications Technical Effort Timeliness	TOM will address compliance in PPE	X
Task 2: Secondary Data Aggregation	LID BMP performance data will be identified and collected for the BMP model validation study.	Annotated Bibliography	Cost Management and Control Technical Effort Timeliness	TOM will address compliance in PPE	X
Task 3: Database Design and Development	Database tables and queries shall be designed for data organization and retrieval	Draft Database design Revised Database Design	Management and Communications Technical Effort Timeliness	TOM will address compliance in PPE	X
	The validation data shall be entered into the database.	Populated Database	Technical Effort Timeliness	TOM will address compliance in PPE	X
Task 4: Model Development and Evaluation	Models representing the LID configurations used in the datasets identified in Task 2 shall be developed in SWMM 5.	SWMM 5 input files for each LID configuration.	Technical Effort Timeliness	TOM will address compliance in PPE	X
	A model performance evaluation will be conducted to identify systemic model errors or other deficiencies in the ability of SWMM5 to reasonably match observed LID performance.	Draft report evaluating model performance results	Management and Communications Technical Effort Timeliness	TOM will address compliance in PPE	X

Task	Activities	Deliverables	Performance Requirement	Contractor Incentive (CI)	✓ or X
Task 5: Project Wrap-Up and Final Report	A final report describing the work done under this project shall be prepared.	Draft Final Report Revised Final Report	Technical Effort Timeliness	TOM will address compliance in PPE	X